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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/888,295	06/22/2001	David A. Fotland	20880-06031	9534
758	7590	06/01/2004	EXAMINER	
FENWICK & WEST LLP SILICON VALLEY CENTER 801 CALIFORNIA STREET MOUNTAIN VIEW, CA 94041			MEONSKE, TONIA L	
			ART UNIT	PAPER NUMBER
			2183	6
DATE MAILED: 06/01/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/888,295	FOTLAND ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Tonia L Meonske	2183	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 24 March 2004.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 22 June 2001 is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____.   |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>4 and 5</u> . | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|  | 6) <input type="checkbox"/> Other: _____.                                   |

## **DETAILED ACTION**

### ***Oath/Declaration***

1. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

2. The oath or declaration is defective because:

- a. It does not identify the city and either state or foreign country of residence of each inventor. The residence information may be provided on either an application data sheet or supplemental oath or declaration.

### ***Specification***

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Intel Corporation, Pentium Processor Family Developer's Manual, Volume 3: Architecture and Programming Manual, 1995 (herein after Intel), in view of Case et al., US Patent 4,777,587.

6. Intel has taught a method for performing arithmetic in a memory to memory architecture in an embedded processor, the method comprising:

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- a. receiving an instruction (Intel, page 25-29) specifying a source address in a memory (Intel, page 25-29 and 25-11, r/m8, r/m16, r/m32), a source address in the register file (Intel, page 25-29 and 25-10, r8, r16, r32), a destination address in the memory (Intel, page 25-29 and 25-11, r/m8, r/m16, r/m32), and a mathematical operation to be performed (Intel, page 25-29, ADD instruction); and
- b. responsive to receiving the instruction:
  - i. accessing, from the source address in the memory, a first operand on which the mathematical operation is to be performed (Intel, page 25-29 and 25-11, r/m8, r/m16, r/m32);
  - ii. accessing, from the source address in the register file, a second operand on which the mathematical operation is to be performed (Intel, page 25-29 and 25-10, r8, r16, r32);
  - iii. performing the mathematical operation on the first operand and the second operand to obtain the result (Intel, page 25-29, ADD instruction); and
- c. storing the result in the destination address in the memory (Intel, page 25-29 and 25-11, r/m8, r/m16, r/m32).

7. Intel has not specifically taught that the instruction is a fixed length instruction. Case et al. have taught that using fixed length instructions, or RISC (reduced instruction set computers) instructions, enables the instructions to be easily decoded (Case et al., column 1, lines 15-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the instructions of Intel be of a fixed-length, as taught by Case et al., for the desirable purpose of simplifying instruction decoding (Case et al., column 1, lines 15-17).

8. Intel may not have specifically taught the following:
  - a. the fixed length instruction is a 32-bit fixed length instruction,
  - b. specifying the source address in a memory using 11 bits, a source address in the register file using 5 bits, a destination address in the memory using 11 bits, and a mathematical operation to be performed using 5 bits.
9. However, it has been held that change in size is not a patentable difference, *In re Rose, 105 USPQ 237 (CCPA 1955)*. Any length of the fixed-length instructions and any length of the claimed specifiers are not patentably distinct over the prior art.
10. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have:
  - a. the fixed-length instruction be any number of bits, including 32 bits,
  - b. specifying the source address in a memory using any number of bits, including 11 bits, specifying a source address in the register file using any number of bits, including 5 bits, specifying a destination address in the memory using any number of bits, including 11 bits, and specifying a mathematical operation to be performed using any number of bits, including 5 bits.

as it has been held that changes in size is not a patentable difference *In re Rose, 105 USPQ 237 (CCPA 1955)*.

*Conclusion*

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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tonia L Meonske whose telephone number is (703) 305-3993.

The examiner can normally be reached on Monday-Friday, 8-4:30.

12. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie P Chan can be reached on (703) 305-9712. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

tlm

  
EDDIE CHAN  
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